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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/044,292	0/044,292 01/11/2002 Klaus Fuller		1959.2011-000	6849	
21005 73	7590 10/08/2003		EXAMINER		
HAMILTON, 530 VIRGINIA	BROOK, SMITH &	MACKEY,	MACKEY, JAMES P		
P.O. BOX 9133		ART UNIT	PAPER NUMBER		
CONCORD, M	IA 01742-9133	1722			

DATE MAILED: 10/08/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application		Applicant(s)	'/			
		10/044,29		FULLER ET AL.				
	omoc Action Cummary	Examiner		Art Unit				
	The MAILING DATE of this communication and	James Ma		1722				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on							
/	This action is FINAL . 2b)⊠ This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4) Claim(s) 1-9 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠	Claim(s) <u>1-9</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
f .	Claim(s) are subject to restriction and/or	r election r	equirement.					
	on Papers							
	he specification is objected to by the Examine							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
-	a)⊠ All b)□ Some * c)□ None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>4/</u>	<u>02</u> ,5/03		(PTO-413) Paper No(s) Patent Application (PTO-				

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: the relationship between the column and each of the other structural elements of the claim, and specifically the relationship between the column and the piston and piston rod, and the relationship between the column and the claw bush. Lacking such essential structural cooperative relationship, the claim recitation "corresponding to an end of the piston rod and/or to an end of the column" is indefinite.

Also, in claim 7, line 6, "the column" lacks proper antecedent basis in the claim, since the preamble lacks even a mention of the column (and clearly does not provide the structural cooperative relationship between the column and the other structural elements of the apparatus).

3. Claims 1-9 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

The prior art of record does not teach or fairly suggest an interlock for a column, including a piston with a piston rod disposed in a claw bush, an end of the column also being disposed in the claw bush so as to interlock the column with the piston rod, the claw bush and the piston being movable, the claw bush having at least two stages to apply force in a distributed

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manner, contour of the stages corresponding to an end of the piston rod and/or to an end of the column, wherein an average radius of the first stage differs from an average radius of the second stage.

While the prior art of record discloses an interlock including a piston rod and column end both being disposed in a claw bush so as to interlock the column with the piston rod, the claw bush having at least two stagest to apply force in a distributed manner, contour of the stages corresponding to an end of the piston rod and an end of the column (for example, DE 274,590), the prior art of record does not teach or fairly suggest providing the claw bush such that an average radius of the first stage differs from an average radius of the second stage as claimed.

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Mackey whose telephone number is 703-308-1195. The examiner can normally be reached on M-F, 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda Walker can be reached on 703-308-0457. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

James Mackey

Primary Examiner

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jpm

September 30, 2003